25X1 Approved For Release 2004/11/30 : CIA-RDP78B04739A000700010045-6

4D LNOV

October 31, 1967

Declass Review by NGA.

25X1

Fort Davis Station
Washington, D. C. 20020

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Attention: Subject:

Gentlemen:

Enclosed is one copy of our Acceptance Test Procedure for the subject contract. Under separate cover one copy is also being sent directly to your technical representative.

Please notify me at your earliest convenience if this proposed procedure is acceptable.

Very truly yours,

25X1

Enc.

ce: Ed D

Program Administrator Photogrammetric and Military Systems

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ACCEPTANCE TEST	PROCEDURE
For	•
ANAMORPHIC ATT	ACHMENT
For	
High Power Stere	eoviewer
	•

DATE

DATE

DATE

•

Test performed by

Anamorphic Attachment Accepted

25X

25X1

Acceptance Test Procedure for Anamorphic Attachment

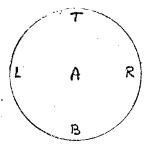
The	tests	will	be per	formed	usir	ng the	stand	lard		Hi	gh l	Power	
Ste	reoview	er e	quipped	with[·	object	ives	and	eyepieces	except	as	noted.	•

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1. Resolution

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Resolution will be measured axially and at four places at the edge of the field as illustrated in the sketch of the field.



The resolution values of the HPSV without the Anamorphic Attachment will be considered as the reference values. The resolution read with the Anamorphic Attachment in place will be compared with the reference values. The resolution values of the HPSV with Anamorphic Attachment should be at least 90% of the resolution values of the HPSV. A high contrast, black bars on clear background, target will be used.

HPSV

Resolution at

		Fi	eld	Ро	siti	ion					ment		.	
Objectives	Zoom Setting	A.	L	R	Т	В	,	_A	L	R	Т	В	Accept	Reject
3X	1X													
3X	2X		•		•	•	.,	•						
6X	1X	•												•
6X	2X													
10X	1X ·													
10X	211		٠,											-
•					_					A 27 1	ا دیسه س	i IIC		25X

+ 1.3X

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VSE

Comments:

- HPSV

With Anamorphic

2. Field Size

A scale will be placed in the object plane and the field size will be measured. The Anamorphic Attachment shall not cause more than a 5% loss of field when compared with the standard HPSV.

	·	HPSV	HPSV With Anamorphic Attachment		
Objectives	Zoom Setting	Field Siz	e in mm	Accept	Reject
3X	1X			-	•
3X	2X			-	
6X	1X	-		***************************************	
6 X	2X			-	
10X	1X			-	
10X	2X				***************************************

Comments:

25X1

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3. Anamorphic Magnification

In this test a10X wide field eyepiece will be used instead of the
eyepiece. Its purpose is to accept a scale which will be used
for measuring the lengths of perpendicular meridians. A suitable scale
or grid will be used in the object plane. The ratio of the lengths of
perpendicular meridians is a measure of the Anamorphic Magnification.
The Anamorphic Magnification range shall be from 1.0 to 2.2X

HPSV WITH ANAMORPHIC ATTACHMENT

Calculated Anamorphic Magnification Anamorphic (Ratio of Perpendicular Scale Setting Meridians) Accept Reject 3X obj. 1.0 1.2 1X Zoom 1.4 Setting 1.6 1.8 2.0 2.2

Comments:

4. Eye Point Extension and Eye Relief

The difference in length between the standard HPSV eyepoint and the eyepoint of the HPSV with Anamorphic Attachment will be calculated.

Both measurements will be made relative to a fixed point on the HPSV.

	Accept	Reject
Distance with Anamorphic Attachment		
Distance with Standard HPSV	,	
Difference - Eyepoint Extension		•
	·	

The eyepoint extension shall be no more than 3 inches.

-4-

The eye relief shall be measured from the exit pupil to the eyepiece.

Standard HPSV

HPSV with Anamorphic Attachment

Accept Reject

Eye Relief

Comments:

5. Interchangeability

The time required to remove the Anamorphic Attachment shall be less than five minutes, without the use of special tools.

Time Required for Removal of the Anamorphic Attachment

Accept Reject

Minutes

Comments:

6. Anamorphic Axis Orientation

Verification will be made that the direction of anamorphic magnification shall be rotatable through 360° .

Accept Reject

Comments:

8. Percent Transmission

The transmission of the Anamorphic Attachement shall be determined.

A small diameter collimated beam of light will be transmitted through the Anamorphic Attachment equipped with the 10X wide field compensating eyepiece. The light energy will be measured and will be compared to the light energy passing through the 10X eyepiece.

The ratio of the two values obtained will be a measure of the light transmission of the Anamorphic Attachment.

Light	Energy
1X	2.2X

25X

25X

25X

(1) Anamorphic Attachemtn with 10X

(2) 10X Eyepiece

% Transmission = $\frac{(1)}{(2)}$ X 100 =

Eyepiece